	Applicati n N .	Applicant(s)	
Nation of Allowability	10/662,882	ALBERT, JACQUES	
Notice of Allowability	Examiner	Art Unit	.)
	Sarah Song	2874	Ar Ar
The MAILING DATE f this communicati n app All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS
1. \boxtimes This communication is responsive to <u>application filed 16 Se</u>	eptember 2003.		
2. ☑ The allowed claim(s) is/are <u>1-18</u> .			
3. \boxtimes The drawings filed on <u>16 September 2003</u> are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperse 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the factor of the depose attached Examiner's comment regarding REQUIREMENT in the depose attached Examiner in the depose attached Examiner in the depose at	been received. been received in Application No cuments have been received in this received in the ceived in this received	complying with the recomplying attached with the recomplying attached with the recomplying wi	quirements OTICE OF
 Attachm nt(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/03 Paper No./Mail Date 0404 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☒ Examiner's Amendn 8. ☒ Examiner's Stateme 9. ☐ Other	(PTO-413), e nent/Comment	·

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Carey on June 2, 2004.

The application has been amended as follows:

In the specification on page 1, below the heading "CROSS REFERENCE TO RELATED APPLICATION", please insert —, now abandoned—after "December 6, 2001".

In claim 1, line 2, change "ot" to —of—.

In claims 4 and 15, delete "such as brass".

In claims 5 and 16, delete "such as aluminum".

In claim 8, the last line, change "structure;" to —structure. —.

In claim 17, line 2, insert a period —.—after "grating".

In claim 18, line 1, change "closure" to —securing—.

The above amendments resolve minor informalities.

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DETAILED ACTION

Information Disclosure Statement

2. The prior art documents submitted by the applicant in the Information Disclosure Statement filed on April 23, 2004 have all been considered and made of record (note the attached copy of form PTO-1449).

Drawings

3. This application has been filed with two (2) sheets of drawings, which have been approved by the Examiner.

Allowable Subject Matter

- 4. Claims 1-18 are allowed.
- 5. The following is an examiner's statement of reasons for allowance: the prior art of record does not disclose or reasonably suggest, either alone or in combination, a temperature compensating package for an optical fiber device comprising a support structure of a material having a negative coefficient of thermal expansion; and a securing means located in the support structure for securing opposed ends of an optical fiber device passing therethrough, at least one of said securing means being of a material having a positive CTE and adjustable lengthwise.
- 6. Lachance et al. (U.S. Patent Application Publication 2002/0141700) is the closest prior art of record. Lachance et al. discloses a temperature compensation package of a composite structure such that the optical fiber within the structure contracts upon heating and thus exhibits an overall negative coefficient of thermal expansion (see paragraphs [0037] and [0046]). However, the support structure 13 of Lachance et al. is disclosed as having a positive coefficient of thermal expansion (see paragraphs see paragraph [0063], wherein silica and quartz have

positive CTEs). Lachance et al. does not disclose or suggest a support structure 13 of a material having a negative coefficient of thermal expansion.

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- 7. Similarly Engelberth (U.S. Patent 5,991,483), Lin (U.S. Patent 6,374,015) and Bettman et al. (U.S. Patent 6,449,402) and Montesanto et al. (U.S. Patent 6,498,891) each disclose a support structure of a material having a positive coefficient of thermal expansion.
- 8. Lachance et al. (U.S. Patent Application Publication 2002/0150335) also discloses an athermal package, but does not disclose or reasonably suggest a support structure of a material having a negative coefficient of thermal expansion.
- 9. Reddy (U.S. Patent 6,278,819) discloses a method and apparatus for manufacturing an optical fiber grating device comprising a support structure 16 of a material having a negative CTE. Reddy further discloses glass frits 18 and 20 for securing the fiber to the support structure, but does not disclose or suggest the glass frits to be adjustable lengthwise. Reddy also discloses a movable clamp 36 that is adjustable lengthwise, but does not disclose or suggest the movable clamp to be made of a material having a positive CTE. Furthermore, the movable clamp is not located in the support structure 16 of a material having a negative CTE.
- 10. Beall et al. (U.S. Patent 6,490,394) also discloses an athermal optical device comprising a support structure of a material having a negative CTE, but does not disclose or suggest securing means located in the support structure, at least one of said securing means being of a material having a positive CTE and adjustable lengthwise.
- 11. Therefore, since none of the prior art of record discloses or reasonably suggest, either alone or in combination all of the limitations of claim 1, claim 1 is allowable over the prior art of record. Claims 2-7 are allowable as depending from claim 1.

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12. Regarding claim 8, the prior art of record also does not disclose the method of providing

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thermal compensation comprising providing a support structure being of a material having a

negative coefficient of thermal expansion and having securing means at each end, at least one of

said securing means being of a material having a positive coefficient of thermal expansion and

adjustable lengthwise. Therefore, claim 8 is allowable over the prior art of record. Claims 9-11

are allowable as depending from claim 8.

13. Claims 12-18 are allowable for at least the same reasons as noted above with respect to

claims 1-7.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

14. Any inquiry concerning the merits of this communication should be directed to Examiner

Sarah Song at telephone number 571-272-2359. Any inquiry of a general or clerical nature, or

relating to the status of this application or proceeding should be directed to the receptionist at

telephone number 571-272-1562 or to the technical support staff supervisor at telephone number

571-272-1615.

Sarah Yong

Primary Examiner